

Appln. No. 09/867,831
Response dated Feb. 1, 2006
Reply to Office Action of Nov. 1, 2005
Docket No. 6169-225

IBM Docket No. BOC9-2000-0092

Amendments to Claims:

This listing of claims will replace all prior versions and listings of claims in the instant application:

Listing of Claims:

1. (Currently Amended) A method of directly changing a telecommunication service attribute comprising:

providing a plurality of selections embodied in a hypermedia document, said plurality of selections corresponding to a telecommunication service attribute contained within a Java applications programming interface for integrated networks (JAIN) compliant service component executing within a Java service logic execution environment (JSLEE), said telecommunication service attribute associated with a telecommunication subscriber;

receiving a user specified selection in said hypermedia document for changing a telecommunication service attribute of a subscriber's service in a JAIN compliant service component;

in an event handling component associated with said hypermedia document, generating a JSLEE service logic execution environment (SLEE) compatible event based on said user selection, said event being of a type for which [[a]] said JAIN compliant service component within said JSLEE [[SLEE]] has [[been]] registered in said SLEE to receive; [[and]]

at said event handling component, routing said event to said JAIN compliant service component via said JSLEE [[SLEE]], said service component for directly

IBM Docket No. BOC9-2000-0092

Appln. No. 09/867,831
Response dated Feb. 1, 2006
Reply to Office Action of Nov. 1, 2005
Docket No. 6169-225

sending and receiving protocol stack events to a protocol layer without accessing an external database for processing said event,

said protocol layer including said one or more protocol stacks configured by said JSLEE for directly interacting with said JAIN compliant service component thereby separating service-based logic from network-based logic,

executing said service component using a configuration and loading parameter provided by said event of said user specified selection; and

updating a JAIN compliant telecommunication service attribute information within said JAIN compliant service component corresponding to said telecommunication service attribute consistent with said event,

wherein a change in a telecommunication service corresponding to the telecommunication service attribute results from the updating step, and wherein subsequent to the change, the telecommunication subscriber experiences different service behavior whenever the telecommunication subscriber utilizes the telecommunication service through a phone, said different service behavior corresponding to the updated service attribute information.

2. (Currently Amended) The method of claim 1, further comprising receiving an acknowledgment event from said JAIN compliant service component, and wherein said hypermedia document provides a common interface available to the telecommunication subscriber and to service provider personnel.

3. (Currently Amended) A method of directly changing a telecommunications service attribute corresponding to a JAIN compliant service component through a hypermedia document, said hypermedia document providing an

IBM Docket No. BOC9-2000-0092

Appln. No. 09/867,831
Response dated Feb. 1, 2006
Reply to Office Action of Nov. 1, 2005
Docket No. 6169-225

interface to a Java service logic execution environment (JSLEE [[SLEE]]), said method comprising:

registering said JAIN compliant service component with said JSLEE [[SLEE]] for receiving a JSLEE [[SLEE]] compatible event generated by said hypermedia document;

receiving said event, said event being posted to said JSLEE [[SLEE]]; [[and]]

routing said event to said JAIN compliant service component via said JSLEE for directly sending and receiving protocol stack events to a protocol layer without accessing an external database for processing said event.

said protocol layer including said one or more protocol stacks configured by said JSLEE for directly interacting with said JAIN compliant service component thereby separating service-based logic from network-based logic.

executing said service component using a configuration and loading parameter provided by said event; and

updating service attribute information corresponding to said telecommunications service attribute in said JAIN compliant service component, said telecommunications service attribute being associated with a telecommunication subscriber, said updating of service attribute information being consistent with said received event, wherein a change in a telecommunication service corresponding to the service attribute results from the updating step, and wherein subsequent to the change, the telecommunication subscriber experiences different service behavior whenever the telecommunication subscriber utilizes the telecommunication service through a phone, said different service behavior corresponding to the updated service attribute information, and wherein the service component includes necessary functionality for performing the updating step without accessing a database external to said service component.

IBM Docket No. BOC9-2000-0092

Appln. No. 09/867,831
Response dated Feb. 1, 2006
Reply to Office Action of Nov. 1, 2005
Docket No. 6169-225

4. (Currently Amended) The method of claim 3, further comprising routing an acknowledgment event from said JAIN compliant service component to a location in a computer communications network containing said hypermedia document, wherein said hypermedia document provides a common interface available to the telecommunication subscriber and to service provider personnel.

5. (Currently Amended) A machine readable storage, having stored thereon a computer program having a plurality of code sections executable by a machine for causing the machine to perform the steps of:

providing a plurality of selections embodied in a hypermedia document, said plurality of selections corresponding to a telecommunication service attribute contained within a Java applications programming interface for integrated networks JAIN compliant service component executing within a Java service logic execution environment (JSLEE), said telecommunication service attribute associated with a telecommunication subscriber, said service attribute corresponding to a service component executing in a service logic execution environment (SLEE), and said hypermedia document providing an interface to said JSLEE [[SLEE]];

receiving a user specified selection in said hypermedia document;

in an event handling component associated with said hypermedia document, generating a JSLEE service logic execution environment (SLEE) compatible event based on said user selection, said event being of a type for which [[a]] said JAIN compliant service component within said JSLEE [[SLEE]] has [[been]] registered in said SLEE to receive; [[and]]

at said event handling component, routing said event to said JAIN compliant service component via said JSLEE [[SLEE]], said service component for directly

Appln. No. 09/867,831
Response dated Feb. 1, 2006
Reply to Office Action of Nov. 1, 2005
Docket No. 6169-225

IBM Docket No. BOC9-2000-0092

sending and receiving protocol stack events to a protocol layer without accessing an external database for processing said event,

said protocol layer including said one or more protocol stacks configured by said JSLEE for directly interacting with said JAIN compliant service component thereby separating service-based logic from network-based logic,

executing said service component using a configuration and loading parameter provided by said event of said user specified selection; and

updating a JAIN compliant telecommunication service attribute information within said JAIN compliant service component corresponding to said telecommunication service attribute consistent with said event,

wherein a change in a telecommunication service corresponding to the service attribute results from the updating step, and wherein subsequent to the change, the telecommunication subscriber experiences different service behavior whenever the telecommunication subscriber utilizes the telecommunication service through a phone, said different service behavior corresponding to the updated service attribute information.

6. (Currently Amended) The machine readable storage of claim 5, further comprising receiving an acknowledgment event from said JAIN compliant service component, and wherein said hypermedia document provides a common interface available to the telecommunication subscriber and to service provider personnel.

7. (Currently Amended) A machine readable storage, having stored thereon a computer program having a plurality of code sections executable by a machine for causing the machine to perform the steps of:

Appln. No. 09/867,831
Response dated Feb. 1, 2006
Reply to Office Action of Nov. 1, 2005
Docket No. 6169-225

IBM Docket No. BOC9-2000-0092

registering a JAIN compliant service component with a Java service logic execution environment JSLEE [[SLEE]] for receiving a JSLEE [[SLEE]] compatible event generated by a hypermedia document, said hypermedia document providing an interface to said JSLEE [[SLEE]];

receiving said event, said event being posted to said JSLEE [[SLEE]]; [[and]]
routing said event to said JAIN compliant service component via said JSLEE
for directly sending and receiving protocol stack events to a protocol layer without
accessing an external database for processing said event,

said protocol layer including said one or more protocol stacks configured by
said JSLEE for directly interacting with said JAIN compliant service component
thereby separating service-based logic from network-based logic,

executing said service component using a configuration and loading parameter
provided by said event; and

updating service attribute information corresponding to said telecommunications service attribute in said JAIN compliant service component, said telecommunications service attribute being associated with a telecommunication subscriber, said updating of service attribute information being consistent with said received event, wherein a change in a telecommunication service corresponding to the service attribute results from the updating step, and wherein subsequent to the change, the telecommunication subscriber experiences different service behavior whenever the telecommunication subscriber utilizes the telecommunication service through a phone, said different service behavior corresponding to the updated service attribute information, and wherein the service component includes necessary functionality for performing the updating step without accessing a database external to said service component.

IBM Docket No. BOC9-2000-0092

Appln. No. 09/867,831
Response dated Feb. 1, 2006
Reply to Office Action of Nov. 1, 2005
Docket No. 6169-225

8. (Currently Amended) The machine readable storage of claim 7, further comprising routing an acknowledgment event from said JAIN compliant service component to a location in a computer communications network containing said hypermedia document, wherein said hypermedia document provides a common interface available to the telecommunication subscriber and to service provider personnel.
9. (Previously Presented) The method of claim 1, wherein said user is said associated telecommunication subscriber.
10. (Previously Presented) The method of claim 1, wherein said user is an agent of a service provider that provides the telecommunication service.
11. (Previously Presented) The method of claim 1, further comprising the steps of:
presenting the user viewing the hypermedia document with subscriber information for the telecommunication subscriber.
12. (Previously Presented) The method of claim 11, the presenting step further comprising:
presenting the user with current real-time usage measurements for the telecommunication service.
13. (Currently Amended) The method of claim 1, further comprising:
presenting the user viewing the hypermedia document with lifecycle management information relating to the JAIN compliant service component.

Appln. No. 09/867,831
Response dated Feb. 1, 2006
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Docket No. 6169-225

IBM Docket No. BOC9-2000-0092

14. (Currently Amended) The method of claim 1, further comprising:
presenting the user viewing the hypermedia document with lifecycle
management information relating to the JAIN compliant service component.
15. (Previously Presented) The machine readable storage of claim 5, wherein
said user is said associated telecommunication subscriber.
16. (Previously Presented) The machine readable storage of claim 5, wherein
said user is an agent of a service provider that provides the telecommunication
service.
17. (Previously Presented) The machine readable storage of claim 5, further
comprising the steps of:
presenting the user viewing the hypermedia document with subscriber
information for the telecommunication subscriber.
18. (Previously Presented) The machine readable storage of claim 17, the
presenting step further comprising:
presenting the user with current real-time usage measurements for the
telecommunication service.
19. (Previously Presented) The machine readable storage of claim 5, further
comprising:
presenting the user viewing the hypermedia document with lifecycle
management information relating to the service component.